AMENDMENT UNDER 37 C.F.R. § 1.11 4(c)

Application No.: 10/718,643

Attorney Docket No.: Q78532

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1-8. (Canceled).

9. (Currently amended): A device for acquiring latent image information contained in a

phosphor layer, said device comprising:

a light source for irradiating the phosphor layer with excitation light that is suitable for

exciting emission light in the phosphor layer, said emission light having a first wavelength range

and said excitation light having a second wavelength range;

a detector for detecting the emission light that has been excited in the phosphor layer; and

a filter device, arranged between the phosphor layer and the detector, the improvement

wherein:

the filter device comprises at least two absorption filter elements which are joined to one

another,

wherein the filter device is substantially transparent in a first wavelength range of the

emission light and is substantially non-transparent in a second wavelength range of the excitation

light, and

wherein the filter device is substantially non-transparent in at least a third wavelength

range that is located at longer wavelengths than the second wavelength range of the excitation

light, and

wherein the filter device and the detector comprise an integrated photodetector.

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10. (Previously presented): The device according to claim 9, wherein the filter device

comprises at least two filter elements,

wherein at least a first one of the filter elements is substantially transparent in the first

wavelength range of the emission light and is substantially non-transparent in the second

wavelength range of the excitation light, and

wherein at least a second one of the filter elements is substantially transparent in the first

wavelength range of the emission light and is substantially non-transparent in the third

wavelength range, which is located at longer wavelengths than the second wavelength range of

the excitation light.

11. (Previously presented): The device according to claim 10, wherein at least one of the

filter elements includes a second reflection layer that is substantially non-transparent for light in

a fifth wavelength range, which is located at longer wavelengths than the second wavelength

range and which partially overlaps with the third wavelength range.

12. (Previously presented): The device according to claim 11, wherein at least one of the

filter elements includes a first reflection layer that is substantially non-transparent for light in a

fourth wavelength range, which is located at longer wavelengths than the second wavelength

range, and

wherein the fifth wavelength range partially overlaps with the fourth wavelength range.

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13. (Previously presented): The device according to claim 9, wherein at least one of the

filter elements includes a first reflection layer that is substantially non-transparent for light in a

fourth wavelength range, which is located at longer wavelengths than the second wavelength

range.

14. (Previously presented): The device according to claim 13, wherein the fourth

wavelength range partially overlaps with the second wavelength range.

15. (Previously presented): The device according to claim 9, wherein the third

wavelength range overlaps with the second wavelength range.

16. (Previously presented): The device according to claim 9, wherein the filter device at

wavelengths in the first wavelength range exhibits a degree of transmission that is greater than

0.1.

17. (Previously presented): The device according to claim 9, wherein the filter device at

wavelengths in at least one of the second wavelength range and the third wavelength range

exhibits a degree of transmission that is less than 10⁻³.

18. (Previously presented): The device according to claim 9, wherein the third

wavelength range borders on the second wavelength range.

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19. (Previously presented): The device according to claim 9, wherein the filter device at

wavelengths in the first wavelength range exhibits a degree of transmission that is greater than

0.7.

20. (Previously presented): The device according to claim 9, wherein the filter device at

wavelengths in at least one of the second wavelength range and the third wavelength range

exhibits a degree of transmission that is less than 10⁻⁴.

21. (New): The device according to claim 9 wherein the thicknesses of the two

absorption filters are the same order of magnitude.

22. (New): A device for acquiring latent image information contained in a phosphor

layer, said device comprising:

a light source for irradiating the phosphor layer with excitation light that is suitable for

exciting emission light in the phosphor layer, said emission light having a first wavelength range

and said excitation light having a second wavelength range;

a detector for detecting the emission light that has been excited in the phosphor layer; and

a filter device, arranged between the phosphor layer and the detector, the improvement

wherein:

the filter device comprises at least two absorption filter elements which are joined to one

another,

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light, and

wherein the filter device is substantially transparent in a first wavelength range of the emission light and is substantially non-transparent in a second wavelength range of the excitation

wherein the filter device is substantially non-transparent in at least a third wavelength range that is located at longer wavelengths than the second wavelength range of the excitation light.

23. (New): The device according to claim 22 wherein the thicknesses of the two absorption filters are the same order of magnitude.